

# Kobelion-VS MULTI

KOBELCO SCREW COMPRESSOR

Wide range controls, incorporated in the larger models also, dramatically improve energy saving performance.

Already known for its high efficiency and high performance, the Kobelion series now challenges energy loss reduction for more than 110kW. Never-before-possible Wide-Range Control was implemented through the multi-unit solution, thus making operation easier and enhancing reliability.

Output	110~150kW
Discharge air volume (0.69~0.59MPa specification)	19.0~26.2m <sup>3</sup> /min

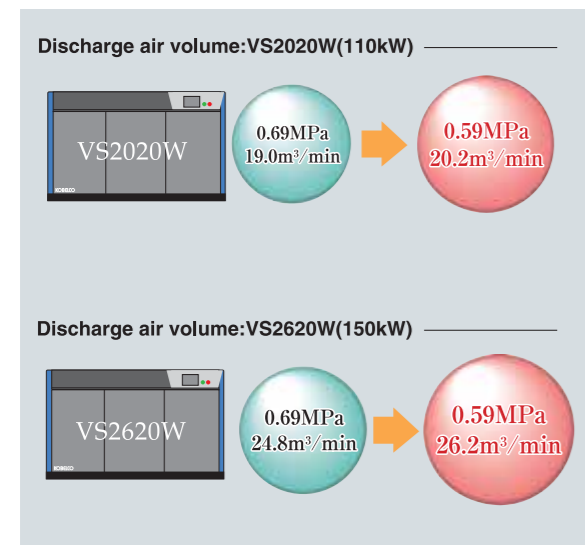


## Energy Saving

### Wide Range Control

Focus of Energy Saving shifts from "Suppression" to "Effective use"

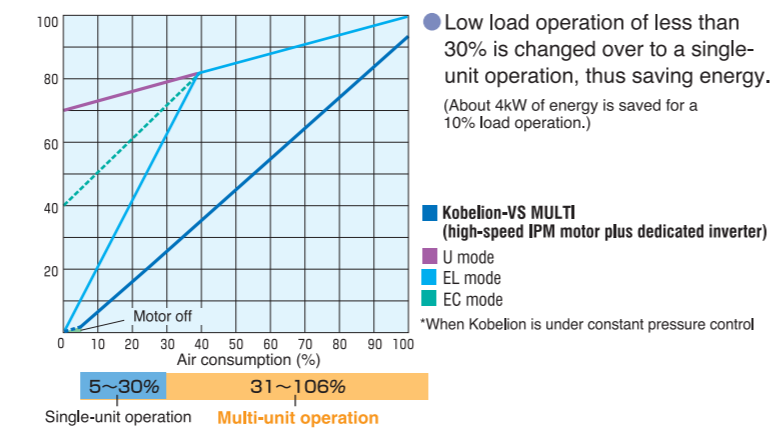
By direct couple IPM high-speed motor to the compressor.



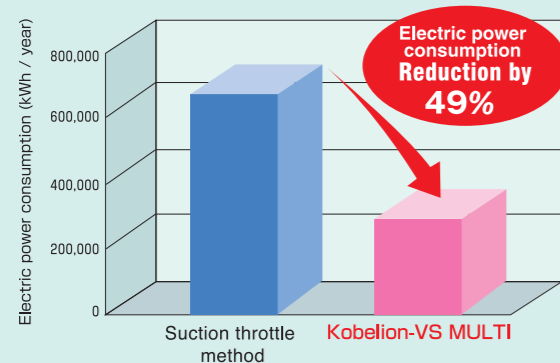
#### Wider capacity control range

Capacity control extended to a wider range of 5% to 106% Uncompromising challenge to improve energy saving performance even for low load operation

#### Energy-saving performance graph



#### Energy saving comparison



<Calculating conditions>  
 \* Comparison with 150kW class equipment.  
 \* Calculations based on an average load of 50%, an operating time of 6,000 hours per year, an electric power rate of JPY15 per kWh.

Electric power cost  
 Annual reduction by **JPY5,600,000**

Carbon dioxide reductions: **-210 t-co<sub>2</sub>/kWh**

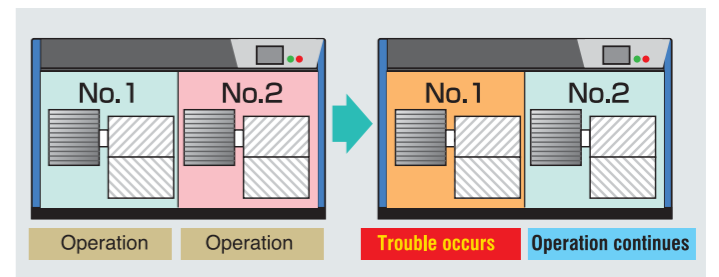
## High Performance High performance & sophisticated functions

### Multi/single changeover operation

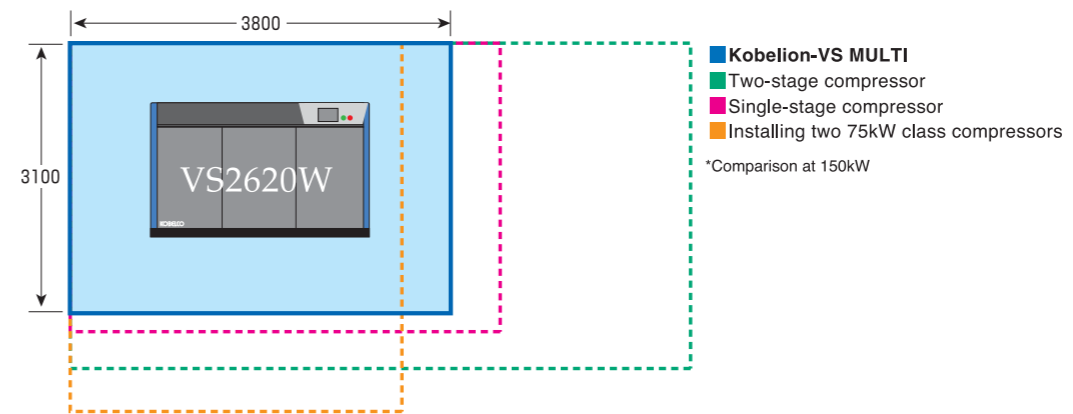
Multi/single unit control allows Kobelion-VS MULTI to perform a backup operation just in case.

Failure tolerance is the same as when running two 75kW compressors

Even if one unit fails, the Kobelion continues running the other unit separately to secure 50% air quantity.



### Reduced installation space enhances layout flexibility



In comparison with large compressors

In comparison with our same class single-stage compressor: **down 9%**  
 In comparison with our same class two-stage compressor: **down 32%**  
 In comparison with our two 75kW class single-stage compressors: **down 12%**

## Advanced Intelligence Advanced operating environment

### Monitor focusing on easy-to-use operation

Full color widescreen display ■ Touch panel type ■ Animated instructions

#### Principal features and displays

